

CLAIMS

WHAT IS CLAIMED IS:

1. A downhole tool system comprising:
 - a side entry sub comprising a side entry adapted to receive a wireline;
 - a cutting sub comprising a cutting apparatus;
 - a cable head connecting a downhole tool to the cutting sub; and
 - a release connecting the wireline to the cable head.
2. The downhole tool system of claim 1 where the downhole tool comprises a formation logging tool.
3. The downhole tool system of claim 1 where the side entry comprises a pack-off, the wireline entering the side entry sub through the pack-off.
4. The downhole tool system of claim 1 where the cutting apparatus comprises:
 - a trip bushing engagable by a re-head connected to the wireline;
 - the trip bushing being movable by the re-head to compress a spring against a ram head secured by shear pins; and
 - a pivotally mounted cutting device adapted to be pivoted by the ram head when released by the shear pins and cut the wireline.
5. The downhole tool system of claim 1 further comprising a modified fishing neck engaged with the cable head.
6. The downhole tool system of claim 1 where the release comprises a fusible material adapted to release a re-head engaged with the wireline.
7. The downhole tool system of claim 1 wherein the release is a mechanical release or an electrical release.

8. The downhole tool system of claim 1 wherein the downhole tool is a formation logging tool, a casing evaluation tool, a cement evaluation tool, a mechanical setting tool, a release tool, an explosive tool, or a production evaluation tool.
9. A method of performing downhole operations comprising:
conveying a downhole tool system downhole on a pipe string, the downhole tool system comprising a side entry sub, a cable head connecting a downhole tool to a cutting sub, and a release releasably connecting a wireline to the cable head; and
performing downhole operations with the downhole tool.
10. The method of claim 9 further comprising:
activating the release to release the wireline from the cable head;
cutting the wireline with the cutting sub, the cutting sub comprising a cutting apparatus; and
retrieving the wireline from the downhole tool system.
11. The method of claim 10 where cutting the wireline with the cutting sub comprises:
engaging the cutting apparatus with a re-head engaged with the wireline; and
applying a force to the wireline to actuate the cutting apparatus with the re-head.
12. The method of claim 11 where actuating the cutting apparatus with the re-head comprises:
moving a trip bushing with the force applied to the wireline;
compressing a spring with the trip bushing against a ram head secured by shear pins;
shearing the shear pins to release the ram head; and
pivoting a cutting device with the ram head to cut the wireline.
13. The method of claim 9 where performing downhole operations with the downhole tool comprises performing logging operations with a downhole logging tool.
14. A downhole tool system comprising:
a side entry sub comprising a pack-off adapted to receive a wireline;

a cutting sub comprising a cutting apparatus adapted to cut the wireline;
a cable head connecting a downhole formation logging tool to the cutting sub; and
a release releasably connecting the wireline to the cable head.

15. The downhole tool system of claim 14 where the cutting apparatus comprises:
 - a trip bushing engagable by a re-head connected to the wireline;
 - the trip bushing being movable by the re-head to compress a spring against a ram head secured by shear pins; and
 - a pivotally mounted cutting device adapted to be pivoted by the ram head when released by the shear pins and cut the wireline.
16. The downhole tool system of claim 14 further comprising a modified fishing neck engaged with the cable head.
17. The downhole tool system of claim 14 where the release comprises a fusible material adapted to release a re-head engaged with the wireline to release the wireline from the cable head.
18. The downhole tool system of claim 14 wherein the release comprises a mechanical release or an electrical release.
19. A method of logging a downhole formation comprising:
 - conveying a logging tool system downhole on a pipe string, the logging tool system comprising a side entry sub, a cable head connecting a formation logging tool to a cutting sub, and a release releasably connecting a wireline to the cable head, the wireline exiting the side entry sub through a side entry; and
 - performing logging operations with the formation logging tool.
20. The method of claim 19 further comprising:
 - activating the release to release the wireline from the cable head;
 - applying a force to the wireline to actuate the cutting apparatus to cut the wireline, the cutting apparatus being actuated with a re-head engaged with the wireline; and

retrieving the wireline from the logging tool system.

21. The method of claim 20 where actuating the cutting apparatus with the re-head comprises:
- moving a trip bushing with the force applied to the wireline;
 - compressing a spring with the trip bushing against a ram head secured by shear pins;
 - shearing the shear pins to release the ram head; and
 - pivoting a cutting device with the ram head to cut the wireline.